

Standard Operating Procedure (SOP) for the formation of Expert Council



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CIN: U73200MH2020NPL344467



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Version 1.0
09-September-2021
TIH

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Revision History

Ver	Name	Date	Changes
1.0	Standard Operating Procedure (SOP) for the formation of Expert Council		1 st Draft prepared by TIH-IoT

Document Number

Document No.	TIH/2021/ECFG/01
Date	

Document Properties

Document Classification	General
Issued to	Whomsoever it may concern
Issued by	TIH for IoT and IoE - IIT Bombay

1 Introduction

Cyber-Physical Systems (CPS) are new class of engineered systems that integrate computation and physical processes in a dynamic environment. CPS encompasses technology areas of Cybernetics, Mechatronics, Design and Embedded systems, Internet of Things (IoT), Big Data, Artificial Intelligence (AI) and many more. The CPS systems are intelligent, autonomous and efficient and are expected to drive innovation in sectors as diverse as agriculture, water, energy, transportation, infrastructure, security, health and manufacturing. Thus, it is heralded as the next paradigm shift in technology that can exponentially spur growth and technology led economic development.

To harness the potential of emerging technologies like robotics, artificial intelligence, digital manufacturing, big data analysis, deep learning, quantum communication and Internet-of-Things, a National Mission on Interdisciplinary Cyber Physical Systems have been set up by Govt of India, under the Department of Science and Technology.

The Mission aims to create robustly productive and sustainable hubs with associated ecosystem, in various technology areas. TIH-IoT Foundation for IoT and IoE (TIH-IoT), IIT Bombay is set up in the technology vertical-Technologies for Internet of Things (IoT) & Internet of Everything (IoE).

The major objectives of the hub are:

- Knowledge Development in the field of IoT and IoE technology areas
- Technology/product development
- Develop ecosystem to support commercialization of innovative solutions in collaboration with Government-Industry-Academia
- Human resource and skill development
- To develop collaboration models
- To contribute to industry standards for IoT
- Setup state of the art laboratory facilities for research and testing

To achieve the objectives of the hub, the activities have been grouped in the following focus areas: -

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- Technology Development
- HRD and Skill Development
- Innovation, Entrepreneurship and Start-up Ecosystem
- International Collaboration

Creating a database of experts is one of the mandates of The National Mission on Interdisciplinary Cyber Physical Systems (NM-ICPS). Formation of Expert Council is aimed at creating a pool of experts in the field of IoT and IoE by bringing together the individuals from industry, academia, government, R and D units and startups, who might be interested in contributing to the knowledge development and research opportunities in the field of IoT and IoE.

The present document provides details of objectives of the formation of the expert council, roles and responsibilities and ways of engaging expert council members and the criteria for appointment as an Expert Council member.

2 Objectives

Following are the broad level objectives of formation of the Expert Council (EC)

- To create a pool of experts in the field of IoT and IoE.
- To bring together the experts from industry, academia, government, R and D units and startups, entrepreneurs, consultants and individuals who might be interested in contributing to the knowledge development and research in the field of IoT and IoE
- To bring together faculty/researchers/technologists from different disciplines, multiple institutes and provide a collaboration platform.
- To build a large network of researchers and developers both hired and/or empaneled members. This will provide an expert ecosystem for application-based technology development and deployment.

3 Roles and responsibilities of the Expert council:

Following are the high level roles and responsibilities for the Expert Council members:

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- Consultancy/advisory role in knowledge and technology development, research and project implementation
- Taking up collaborative research, product development, technology development work either independently or in collaboration with other expert council members, industries, government organizations and academic institutions
- Participation in the review and evaluation of the technical proposals, projects, courses etc
- Participation in recruitment of manpower, selection of fellows etc.
- Advising/Mentoring startups, industries, Government and regulatory bodies
- Participation in various knowledge exchange forums

The Expert Council members can be paid honorarium, fees, consulting charges for their services and time.

4 Criteria for selection of Expert Council members:

- The expert should either be associated with Industry/Academic institution /Government organization/ R&D organization etc or working as an independent consultant in the areas of IoT & IoE.
- The individual should have expertise in one or more areas related to IoT & IoE technology or in the relevant domain/function in which IoT/IoE technologies can be implemented.
- An expert from industry/government should have relevant experience in IoT/IoE projects or expertise in specific domain/functional area.
- An expert from academia should have research experience IoT/IoE technologies or in specific domain/functional area.
- The expert should have expressed willingness to contribute toward TIH-IoT as a collaborator/Expert Council member
- The expert should agree to maintain strict confidentiality of the project including, the R&D work and know-how generated and prevent disclosure thereof, for any purpose, other than in accordance with agreement with TIH-IoT.

5 Mode of involvement

TIH-IoT would like to engage the expert council members in the following ways:

- Participation in review of proposals/projects/, recruitment of manpower, recruitment of fellows, etc
- As technical advisors/Consultants in core technology or domain of expertise
- Working closely on projects in the capacity of an advisor.
- If possible, providing opportunities to students to interact with the industry to solve problems.

Recommending references in the domain area.

6 Annexure 1: Sample of consent letter for expert council membership

Name

Company Name

Address

Ph No

Email Id

Consent letter for Expert Council

This is to state that, I, -----, hereby consent to be an expert council member for TIH Foundation for IoT and IoE, IIT Bombay.

I am aware and agree to contribute towards this engagement through the following activities wherever applicable:

- Consultancy/advisory role in knowledge and technology development, research and project implementation
- Taking up collaborative research, product development, technology development work either independently or in collaboration with other expert council members, industries, government organizations and academic institutions

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- Participation in the review and evaluation of the technical proposals, projects, courses etc
- Participation in recruitment of manpower, selection of fellows etc.
- Advising/Mentoring startups, industries, Government and regulatory bodies
- Participation in various knowledge exchange forums

I hereby affirm that my Organisation has consented me to contribute towards TIH Foundation for IoT and IoE, IIT Bombay.

Signature:

Date: